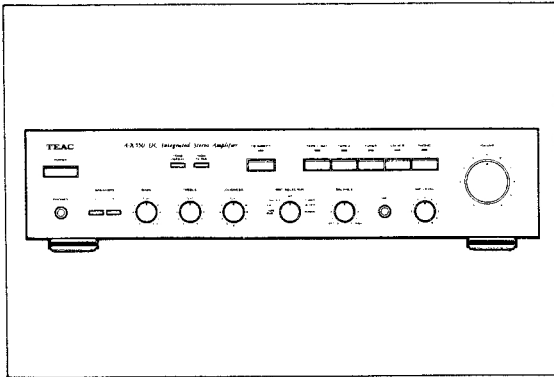



# TEAC<sup>®</sup>



## SERVICE MANUAL

# A-X550/A-X400

## DC Integrated Stereo Amplifier

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

### CAUTION

⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

### NOTE:

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

## 1 SPECIFICATIONS

### A-X550

**Output Power** \*55 watts per channel minimum RMS, both channels driven into 8 ohms from 40 Hz to 20 kHz with no more than 0.05 % total harmonic distortion.

65W + 65W (8 ohms DIN, 1 kHz)

71W + 71W (8 ohms Dynamic Power)

84W + 84W (6 ohms Dynamic Power)

### Input Sensitivity/Impedance

PHONO: 2.5 mV/47 kohms

CD/VCR, TAPE/DAT, (TAPE2),

TUNER: 150 mV/30 kohms

MIC: 0.6 mV/47 kohms

### Frequency Response

CD/VCR, TAPE/DAT, (TAPE2), TUNER: 5 Hz – 65 kHz –3 dB (Line In to SP Out)

PHONO: 20 Hz – 20 kHz  $\pm 0.5$  dB (RIAA)

**Total Harmonic Distortion** 0.05 %

**Damping Factor** 30 (1 W, 50 Hz)

**Output Level/Impedance** TAPE/DAT, (TAPE2): 135 mV/1 kohm

**Signal-to-Noise Ratio (IHF A Network)**

PHONO: 80 dB

CD/VCR, TAPE/DAT, (TAPE2),

TUNER: 92 dB

**Tone Control** Bass:  $\pm 10$  dB at 100 Hz

Treble:  $\pm 10$  dB at 10 kHz

**Loudness Control** –12/–22/–14 dB at 100 Hz/1 kHz/10 kHz

**Filter** High-Cut Filter: –3 dB at 10 kHz

### Power Requirements

115/230 V AC, 50/60 Hz (General Export)

120 V AC, 60 Hz (USA/Canada)

220 V AC, 50 Hz (Europe)

240 V AC, 50 Hz (UK/Australia)

**Power Consumption** 315 W

**Dimensions (WxHxD)** 435 x 100 x 325 mm (17-1/8" x 3-15/16" x 12-13/16")

**Weight (net)** 7.0 kg (15.44 lbs)

\* Measured pursuant to Federal Trade Commission's Trade Regulation Rule on Power Output Claim for Amplifier in U.S.A.

\*\* Improvements may result in specification or feature changing without notice.

### A-X400

**Output Power** \*40 watts per channel minimum RMS, both channels driven into 8 ohms from 40 Hz to 20 kHz with no more than 0.05 % total harmonic distortion.

53W + 53W (8 ohms DIN, 1 kHz)

56W + 56W (8 ohms Dynamic Power)

64W + 64W (6 ohms Dynamic Power)

### Input Sensitivity/Impedance

PHONO: 2.5 mV/47 kohms

CD/VCR, TAPE/DAT, (TAPE2),

TUNER: 150 mV/30 kohms

MIC: 0.6 mV/47 kohms

### Frequency Response

CD/VCR, TAPE/DAT, (TAPE2), TUNER: 5 Hz – 90 kHz –3 dB (Line In to SP Out)

PHONO: 20 Hz – 20 kHz  $\pm 0.5$  dB (RIAA)

**Total Harmonic Distortion** 0.05 %

**Damping Factor** 30 (1 W, 50 Hz)

**Output Level/Impedance** TAPE/DAT, (TAPE2): 135 mV/1 kohm

**Signal-to-Noise Ratio (IHF A Network)**

PHONO: 80 dB

CD/VCR, TAPE/DAT, (TAPE2),

TUNER: 90 dB

**Tone Control** Bass:  $\pm 10$  dB at 100 Hz

Treble:  $\pm 10$  dB at 10 kHz

**Loudness Control** +10/+8 dB at 100 Hz/10 kHz

### Power Requirements

115/230 V AC, 50/60 Hz (General Export)

120 V AC, 60 Hz (USA/Canada)

220 V AC, 50 Hz (Europe)

240 V AC, 50 Hz (UK/Australia)

**Power Consumption** 260 W

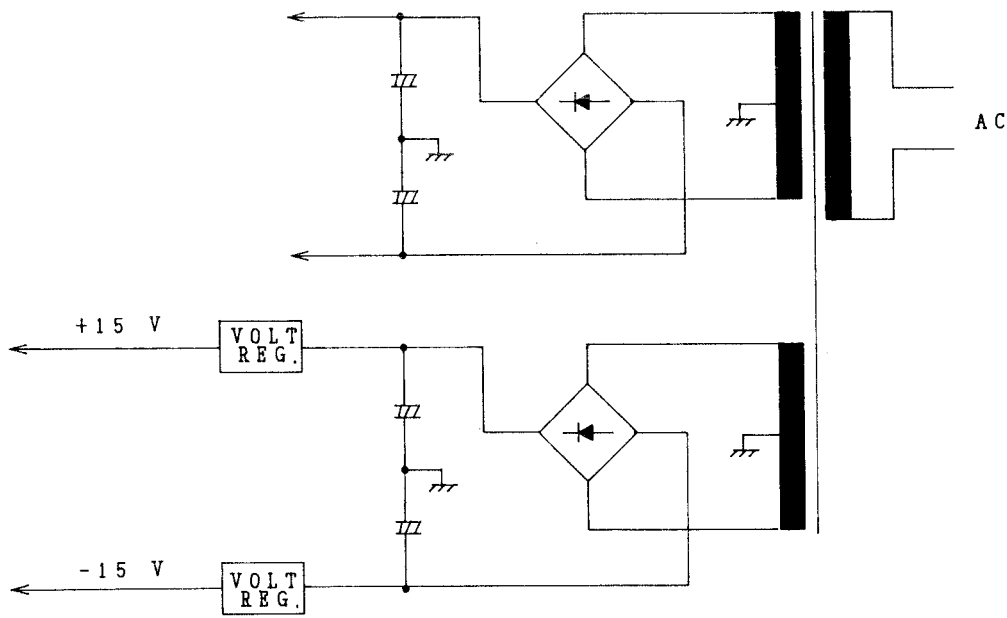
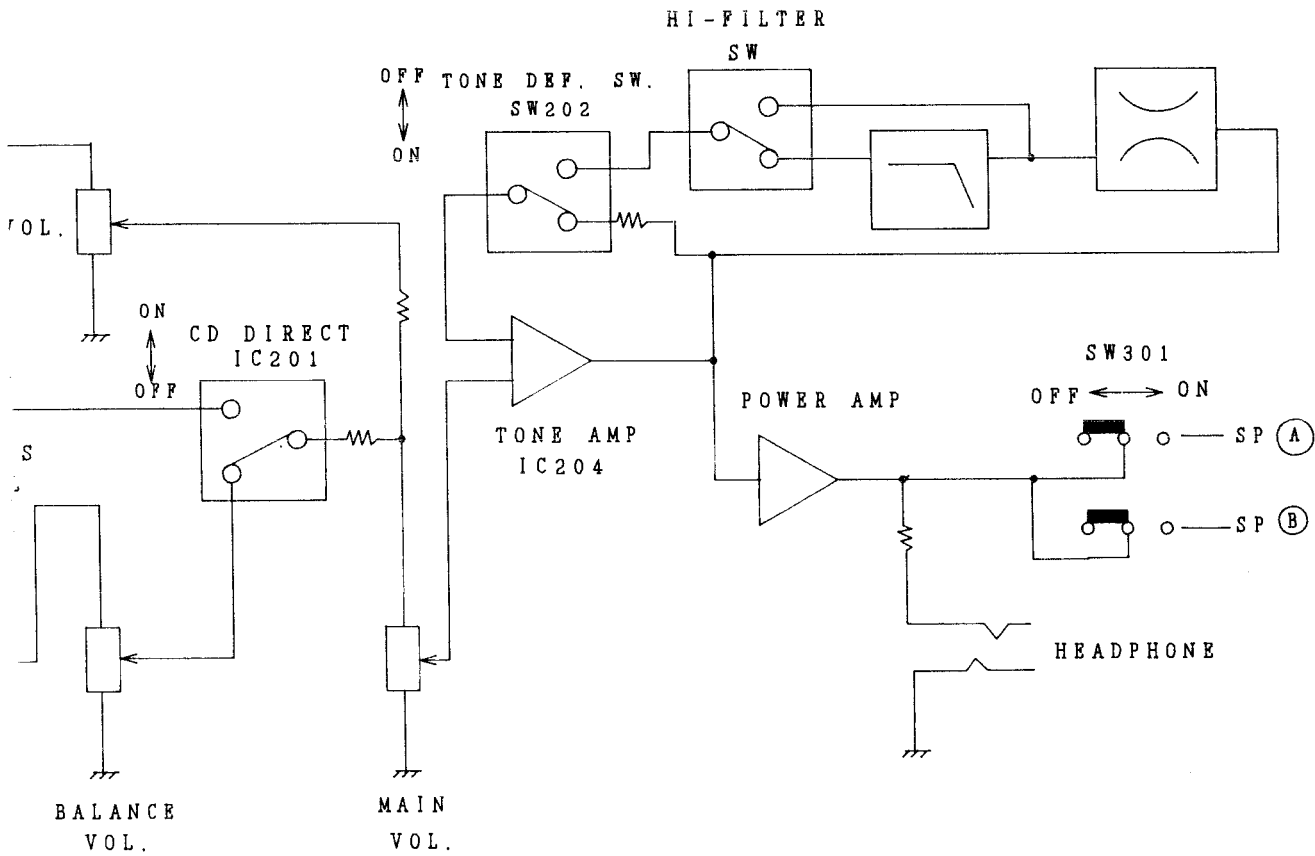
**Dimensions (WxHxD)** 435 x 100 x 325 mm (17-1/8" x 3-15/16" x 12-13/16")

**Weight (net)** 6.9 kg (15.19 lbs)

\* Measured pursuant to Federal Trade Commission's Trade Regulation Rule on Power Output Claim for Amplifier in U.S.A.

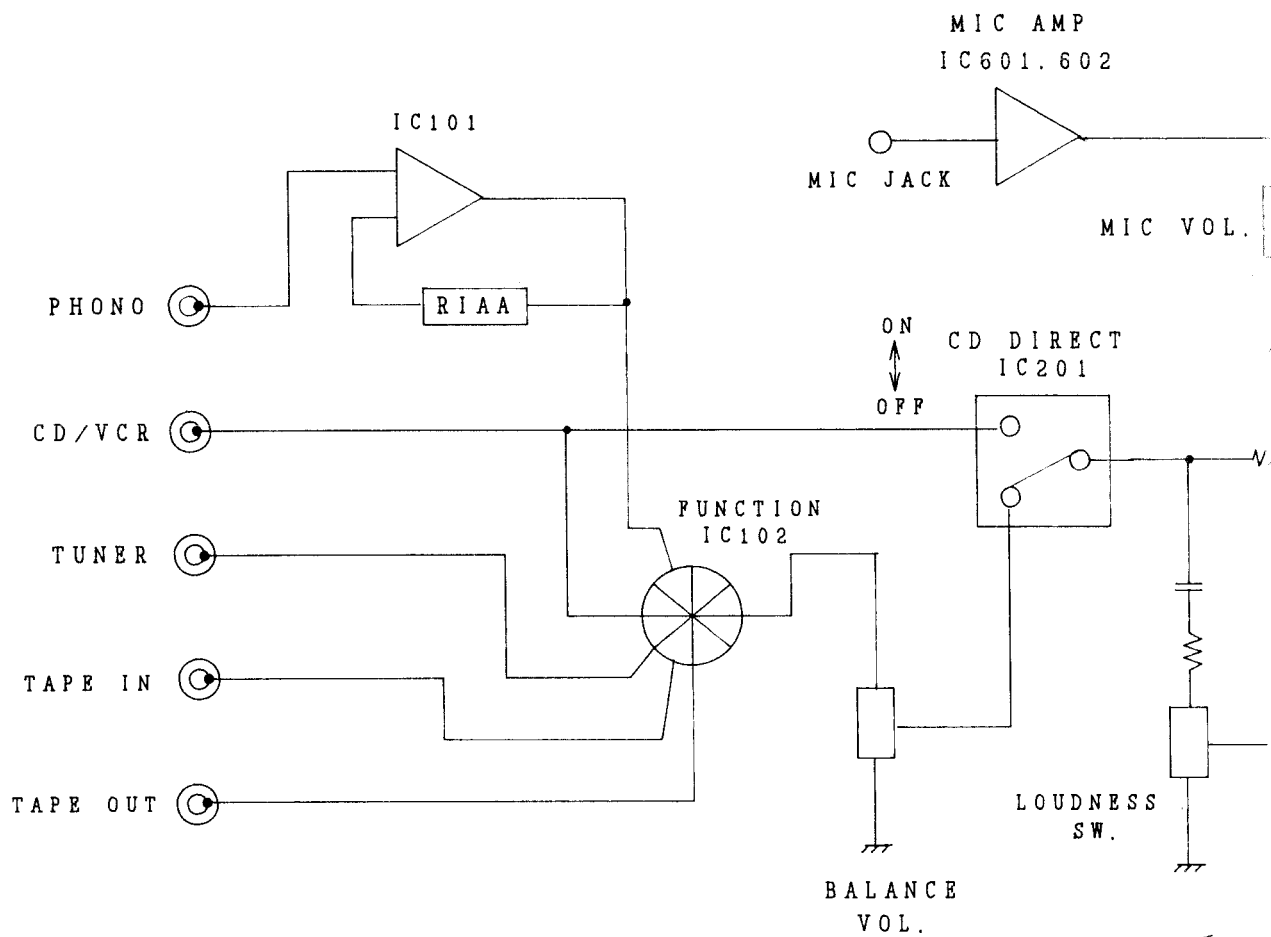
\*\* Improvements may result in specification or feature changing without notice.

CK DIAGRAMS

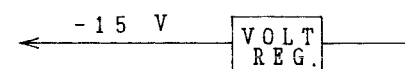


EL

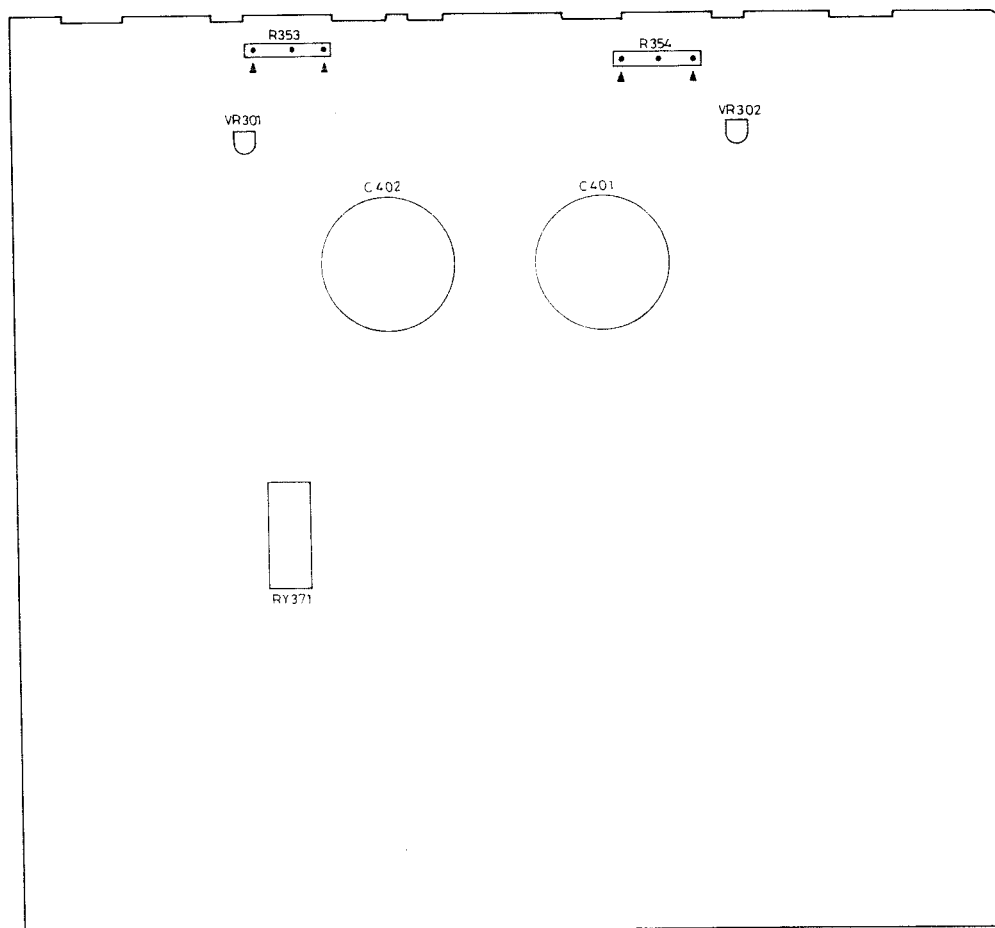
A-X400



AS SAME AS LEFT CHANNEL



### 3 ADJUSTMENT AND CHECKS



#### AMPLIFIER SECTION

##### Condition

##### Power Requirements

- 115/230 V AC, 50/60 Hz (General Export)
- 120 V AC, 60 Hz (USA/Canada)
- 220 V AC, 50 Hz (Europe)
- 240 V AC, 50 Hz (UK/Australia)

Input: No-signal

Output load: 8 ohms

##### ● Idling current

1. Set the Power switch to ON and wait for 3 minutes for preheating.
2. Connect a DVM (Digital Voltage Meter) across R353 (0.22 ohms x 2 = 0.44 ohms).
3. Adjust VR301 (L CH) so that the DVM reads  $7 \pm 0.1$  mV.
4. Connect the DVM across R354 (0.22 ohms x 2 = 0.44 ohms).
5. Adjust VR302 (R CH) so that the DVM reads  $7 \pm 0.1$  mV.

## EXPLODED VIEW [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
1M 1	*9A02102100	FRONT PANEL
1M 3	*9A02102200	FRONT BASE
1M 6	9A02102300	TACT BUTTON, 5
1M 7	9A02102300	TACT BUTTON
1M15	9A02102400	PUSH BUTTON
1M16	*9A02102500	LED LENS, 5
1M17	*9A02102500	LED LENS
1M19	*9A01522500	CABINET
1M21	*9A02102600	REAR PANEL [C]
	*9A02109000	REAR PANEL [E,UK,GE]
1M23	*9A01201300	BOTTOM BOARD
1M25	*9A01522600	TRANSFORMER CHASSIS
2M 1	9A01046000	VR KNOB (35)
2M 2	9A01046100	VR KNOB (16)
2M 3	*5800752300	POWER BUTTON B
2M 4	*5720175500	TEAC EMBLEM
2M 5	*9260082400	FOOT ASSY
3M 1	*9A01202500	SIDE CHASSIS
3M 2	*9A01202600	CENTER CHSSIS
3M 4	*9A01203800	HEAT SINK METAL FITTING F
3M 5	*9A01203900	HEAT SINK METAL FITTING C
3M 6	*9A01204000	HEAT SINK METAL FITTING R
3M 8	*9A01204100	PCB METAL FITTING
3M10	*9A01202800	HEAT SINK
3M14	*9A01203300	FUSE COVER [E,UK,GE]
3M16	*9A01204500	INSULATION COVER [E,UK,GE]
3M24	*9A01204400	TRANSFORMER METAL FITTING
3M28	*9A01523900	CABIMAT
3M30	*9A01519100	LED SPACER
5M 1	*9A00313700	TAP SCREW TBB+26X08-B [GE]
5M 6-M11	*9A00315700	TAP SCREW TPM+30X08-Y
5M13,M14	*9A00314000	TAP SCREW TPM+30X08-B
5M16	*9A00314000	TAP SCREW TPM+30X08-B
5M19	*9A01525300	TAP SCREW TPS+30X08-B
5M21-M24	*9A00315800	TAP SCREW TSB+30X06-Y
5M26	*9A00315800	TAP SCREW TSB+30X06-Y
5M28-M30	*9A00315800	TAP SCREW TSB+30X06-Y
6M 1-M 3	*9A00315800	TAP SCREW TSB+30X06-Y
6M 6-M10	*9A00326900	TAP SCREW TSB+30X06-B
6M13,M14	*9A00629500	TAP SCREW TSB+30X08-Y
6M16	*9A00389600	TAP SCREW TSB+30X08-B
6M23	*9A00315900	TAP SCREW TSC+30X08-Y
6M27	*9A01207900	TAP SCREW TSB+40X08-Y
6M29	*9A00334700	TAP SCREW TSB+40X08-B
7M 1	*9A00391300	TAP SCREW TSB+40X10-Y
7M 7	*9A01205500	NYLON PUSH RIVET [E,UK,GE]
7M 8	*9A00292300	LUG [E]
7M 9	*9A00316000	SNAKE LUG
7M11,M12	*9A00292300	LUG
7M14-M17	*9A00317300	TAP SCREW TBB+30X08-Y
7M20	*9A01276500	TAP SCREW TBC+30X12-Y
7M23-M25	*9A01204700	LUG
7M30	*9A02102700	PLAIN WASHER, Y

REF. NO.	PARTS NO.	DESCRIPTION
SW402	△ 9A02110700	SWITCH [GE]
14E 3	△ *9A01625800	LINE CORD [C]
	△ *9A01193100	LINE CORD [E]
	△ *9A02110200	LINE CORD [UK]
	△ *9A02110800	LINE CORD [GE]
14E 4	△ *9A00325300	CORD STOPPER [C,E,GE]
	△ *9A02111700	CORD STOPPER [UK]
14E12	*9A01208800	GROUND TERMINAL
14E14	△ *9A01625700	AC OUTLET [C,E]
	△ *9A02110900	AC OUTLET [GE]
5P26	*9A02086200	MAIN PCB ASSY [C,UK,GE]
	*9A02086210	MAIN PCB ASSY [E]
7P14	*9A02086300	TONE C. PCB ASSY [C,UK,GE]
	*9A02086310	TONE CONTROL PCB ASSY [E]
8P 6	*9A02086400	TONE DEFEAT PCB ASSY
8P22	*9A02086500	SPEAKER SELECTOR PCB ASSY
9P24	*9A02086600	MIC PCB ASSY
10P27	*9A02086700	FUNCTION SELECTOR PCB ASSY
11P 5	*9A02086800	SP. TE. PCB ASSY [C,UK,GE]
	*9A02086810	SP. TERMINAL PCB ASSY [E]
12P 3	*9A02086900	POWER TRANS PCB ASSY [C]
	*9A02086910	POWER TRANS PCB ASSY [E]
	*9A02086920	POWER TRANS PCB ASSY [UK]
	*9A02086930	POWER TRANS PCB ASSY [GE]
13P 7	*9A02087000	MAIN VOLUME PCB ASSY
14P 5	*9A02087100	POWER SWITCH PCB ASSY [C]
	*9A02087110	POWER SWITCH PCB ASSY [E]
	*9A02087120	POWER SWITCH PCB ASSY [UK]
	*9A02087130	POWER SWITCH PCB ASSY [GE]

## INCLUDED ACCESORIES

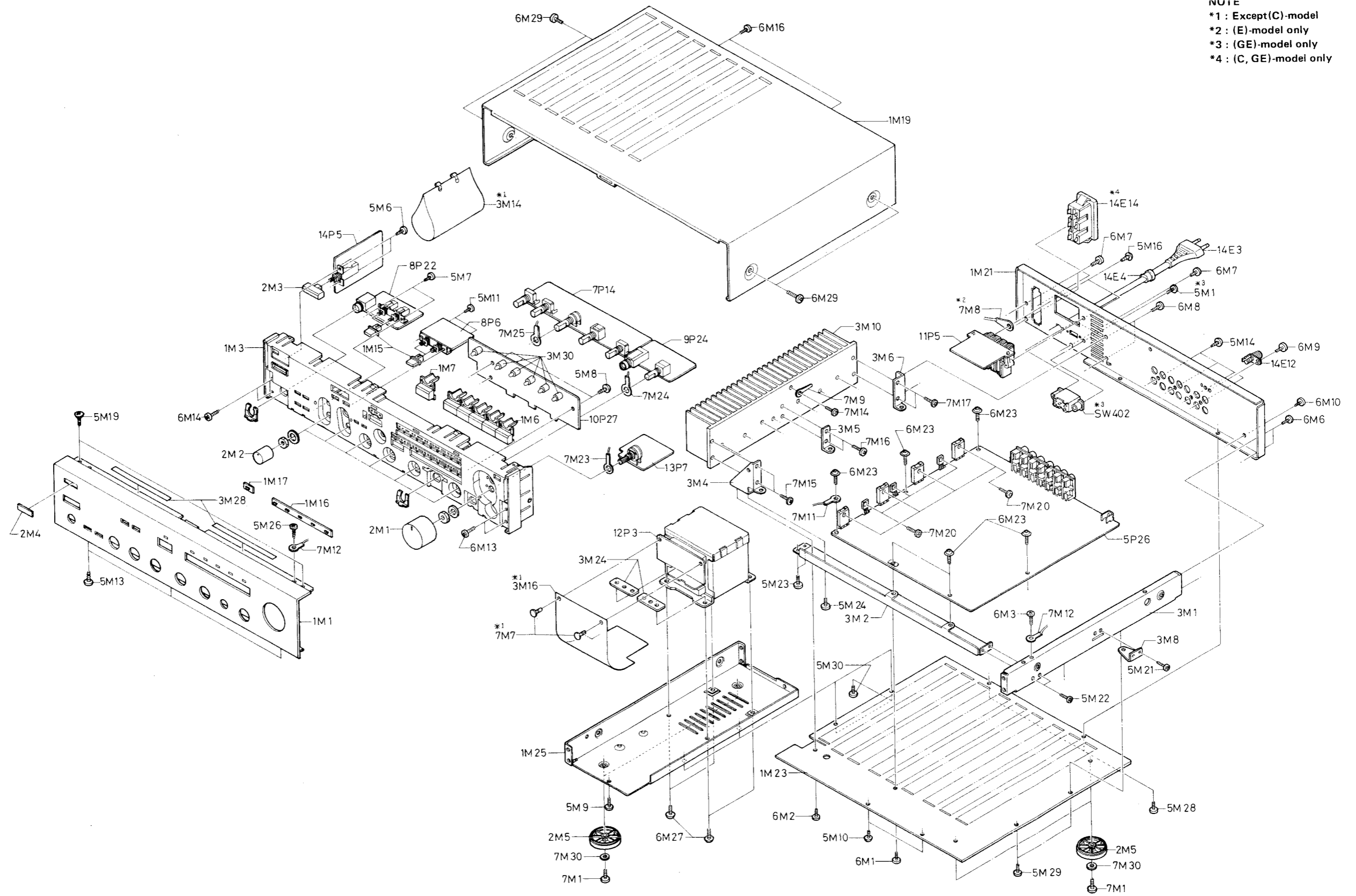
REF. NO.	PARTS NO.	DESCRIPTION
	*9A01841900	OWNER'S MANUAL (M)
	*9A02105800	SOLDER-PLATED WIRE
	*9A02111100	SOLDER PLATED WIRE [GE]
	*9A02111200	SOLDER PLATED WIRE [GE]
	*9A02111300	SOLDER PLATED WIRE [GE]
	*9A02111400	SOLDER PLATED WIRE [GE]
	*9A02111500	SOLDER P. WIRE [A-X550,GE]
	*9A02115600	SOLDER P. WIRE [A-X400,GE]

[C]:CANADA [E]:EUROPE [UK]:U.K. [GE]:GENERAL EXPORT

Parts marked with \*require longer delivery time.

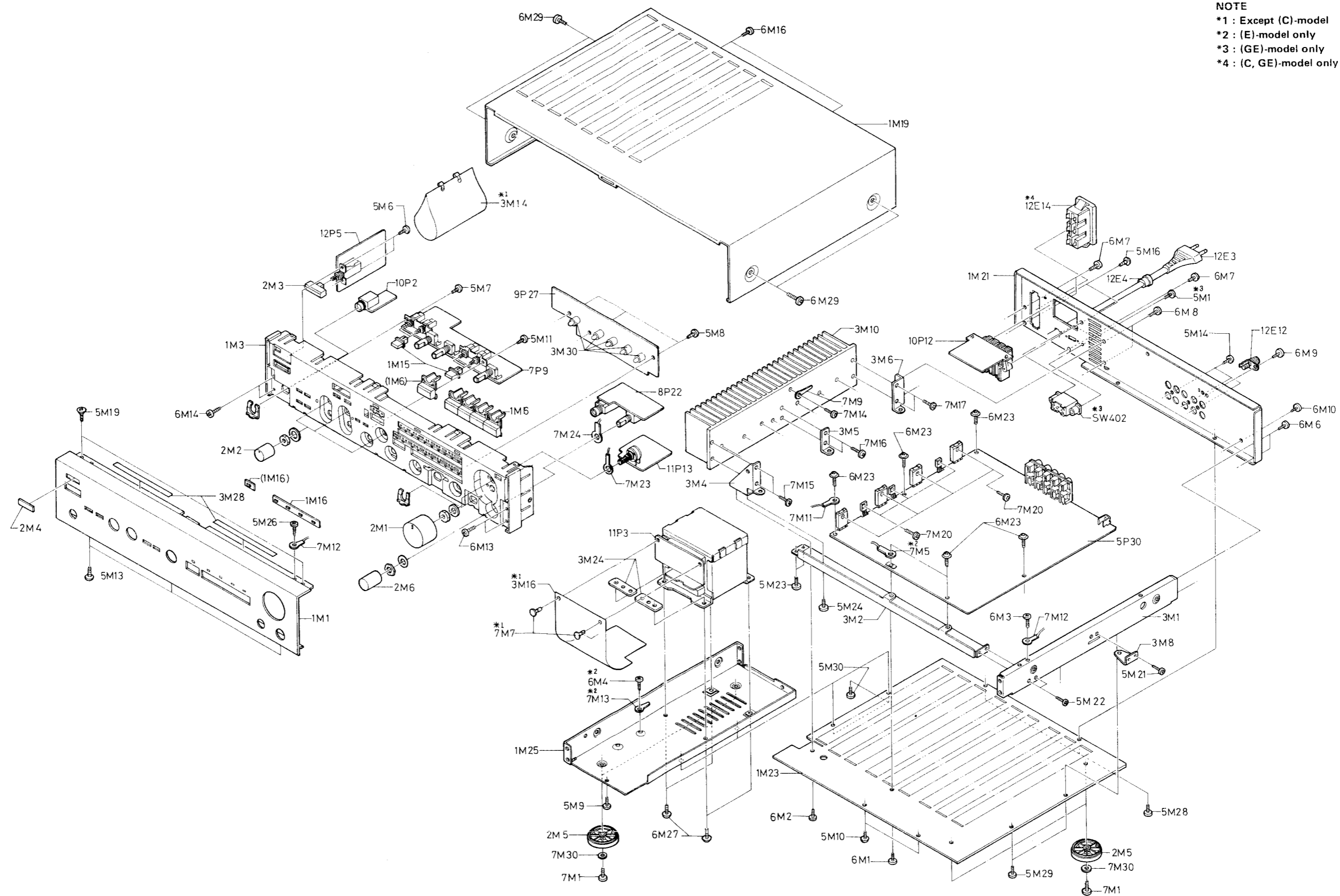
## 4 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1(A-X550)



NOTE  
 \*1 : Except(C)-model  
 \*2 : (E)-model only  
 \*3 : (GE)-model only  
 \*4 : (C, GE)-model only

EXPLODED VIEW-2(A-X400)



## EXPLODED VIEW [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
1M 1	*9A02113100	FRONT PANEL
1M 3	*9A02102200	FRONT BASE
1M 6	9A02102300	TACT BUTTON, 5
1M15	9A02102400	PUSH BUTTON
1M16	*9A02102500	LED LENS, 5
1M19	*9A01522500	CABINET
1M21	*9A02113200	REAR PANEL [C]
	*9A02111460	REAR PANEL [E,UK,GE]
1M23	*9A01201300	BOTTOM BOARD
1M25	*9A01522600	TRANSFORMER CHASSIS
2M 1	9A01046000	VR KNOB (35)
2M 2	9A01046100	VR KNOB (16)
2M 3	5800752300	POWER BUTTON B
2M 4	*5720175500	TEAC EMBLEM
2M 5	*9260082400	FOOT ASSY
2M 6	9A01637700	KNOB 12
3M 1	*9A01202500	SIDE CHASSIS
3M 2	*9A01202600	CENTER CHSSSIS
3M 4	*9A01203800	HEAT SINK METAL FITTING F
3M 5	*9A01203900	HEAT SINK METAL FITTING C
3M 6	*9A01204000	HEAT SINK METAL FITTING R
3M 8	*9A01204100	PCB METAL FITTING
3M10	*9A01202700	HEAT SINK
3M14	*9A01203300	FUSE COVER [E,UK,GE]
3M16	*9A01204500	INSULATION COVER [E,UK,GE]
3M24	*9A01204400	TRANSFORMER METAL FITTING
3M27	*9A02114200	SPACER
3M28	*9A01523900	CABIMAT
3M30	*9A01519100	LED SPACER
4M21	*9A02114300	LABEL, CHINA [C]
4M29	*9A02114400	LABEL, CSA FILENO. [C]
5M 1	*9A00313700	TAP SCREW TBB+26X08-B [GE]
5M 6-M11	*9A00315700	TAP SCREW TPM+30X08-Y
5M13,M14	*9A00314000	TAP SCREW TPM+30X08-B
5M16	*9A00314000	TAP SCREW TPM+30X08-B
5M19	*9A01525300	TAP SCREW TPS+30X08-B
5M21-M24	*9A00315800	TAP SCREW TSB+30X06-Y
5M26	*9A00315800	TAP SCREW TSB+30X06-Y
5M28-M30	*9A00315800	TAP SCREW TSB+30X06-Y
6M 1-M 3	*9A00315800	TAP SCREW TSB+30X06-Y
6M 6-M10	*9A00326900	TAP SCREW TSB+30X06-B
6M13,M14	*9A00629500	TAP SCREW TSB+30X08-Y
6M16	*9A00389600	TAP SCREW TSB+30X08-B
6M23	*9A00315900	TAP SCREW TSC+30X08-Y
6M27	*9A01207900	TAP SCREW TSB+40X08-Y
6M29	*9A00334700	TAP SCREW TSB+40X08-B
7M 1	*9A00391300	TAP SCREW TSB+40X10-Y
7M 5	*9A00292300	LUG [E]
7M 7	*9A01205500	NYLON PUSH RIVET [E,UK,GE]
7M 9	*9A00316000	SNAKE LUG
7M11,M12	*9A00292300	LUG
7M14-M17	*9A00317300	TAP SCREW TBB+30X08-Y
7M20	*9A01276500	TAP SCREW TBC+30X12-Y
7M23,M24	*9A01204700	LUG
7M30	*9A02102700	PLAIN WASHER, Y

REF. NO.	PARTS NO.	DESCRIPTION
SW402	△ 9A02110700	SWITCH [GE]
12E 3	△ *9A02114500	LINE CORD [C]
	△ *9A02114700	LINE CORD [E]
	△ *9A02115200	LINE CORD [UK]
	△ *9A02115400	LINE CORD [GE]
12E 4	△ *9A00325300	CORD STOPPER [C,E,GE]
	△ *9A02111700	CORD STOPPER [UK]
12E12	*9A01208800	GROUND TERMINAL
12E14	△ *9A01625700	AC OUTLET [C]
	△ *9A02110900	AC OUTLET [GE]
5P30	*9A02112100	MAIN PCB ASSY [C,UK,GE]
	*9A02112110	MAIN PCB ASSY [E]
7P 9	*9A02112200	TOPE C. PCB ASSY [C,UK,GE]
	*9A02112210	TOPE CONTROL PCB ASSY [E]
8P22	*9A02112300	MIC PCB ASSY [C,UK,GE]
	*9A02112310	MIC PCB ASSY [E]
9P27	*9A02112400	FUN. S. PCB ASSY [C,UK,GE]
	*9A02112410	FUN. SELECTOR PCB ASSY [E]
10P 2	*9A02112500	HEAD PHONES PCB ASSY
10P12	*9A02112600	SP. TE. PCB ASSY [C,UK,GE]
	*9A02112610	SP. TERMINAL PCB ASSY [E]
11P 3	*9A02112700	POWER TRANS PCB ASSY [C]
	*9A02112710	POWER TRANS PCB ASSY [E]
	*9A02112720	POWER TRANS PCB ASSY [UK]
	*9A02112730	POWER TRANS PCB ASSY [GE]
11P13	*9A02112800	MAIN V. PCB ASSY [C,UK,GE]
	*9A02112810	MAIN VOLUME PCB ASSY [E]
12P 5	*9A02112900	POWER SWITCH PCB ASSY [C]
	*9A02112910	POWER SWI. PCB ASSY [E,UK]
	*9A02112920	POWER SWITCH PCB ASSY [GE]

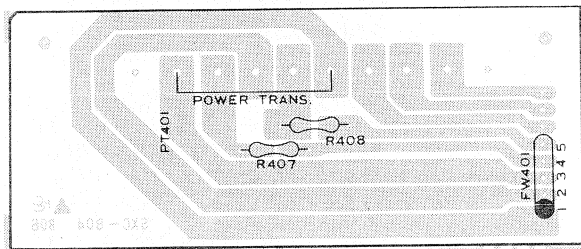
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Parts marked with \*require longer delivery time.

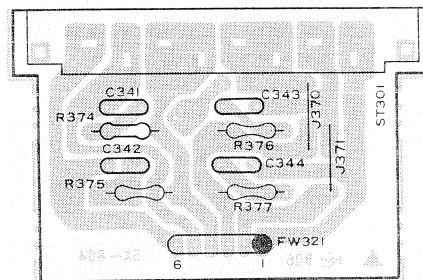
## 5 P.C. BOARDS AND PARTS LIST

A-X550

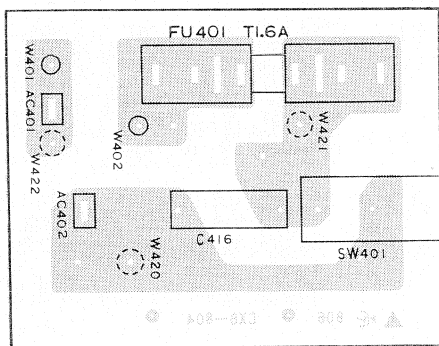
POWER TRANS PCB ASSY



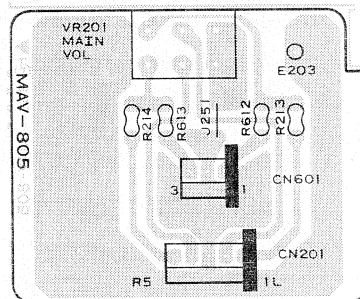
SPEAKER TERMINAL PCB ASSY



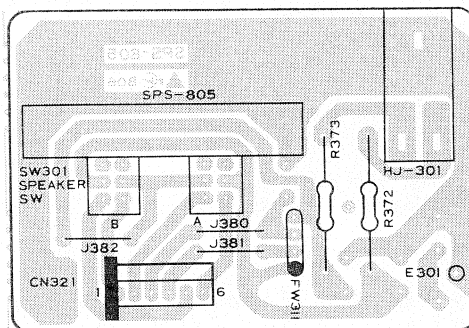
POWER SWITCH PCB ASSY



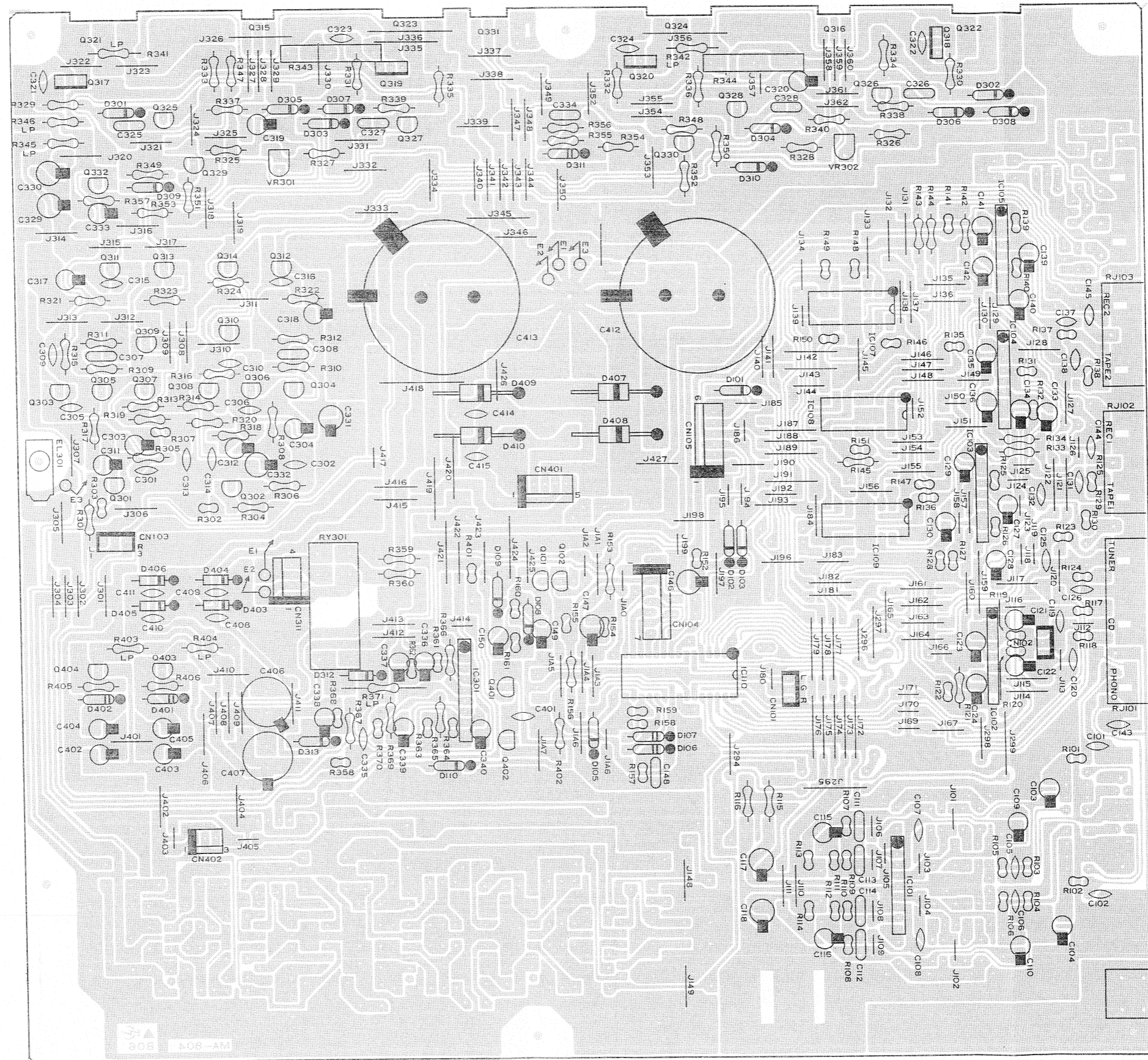
MAIN VOLUME PCB ASSY



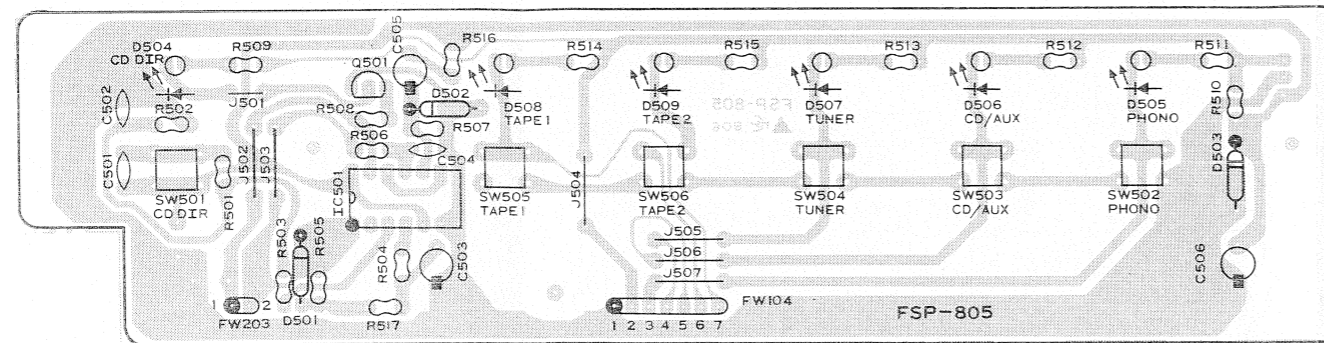
SPEAKER SELECTOR PCB ASSY



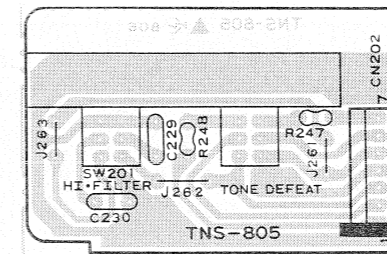
MAIN PCB ASSY



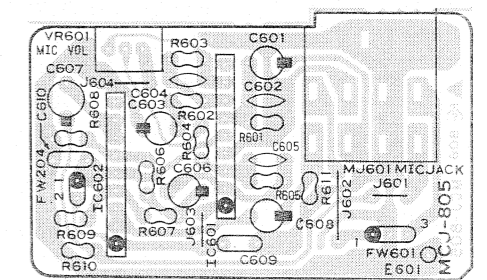
FUNCTION SELECTOR PCB ASSY



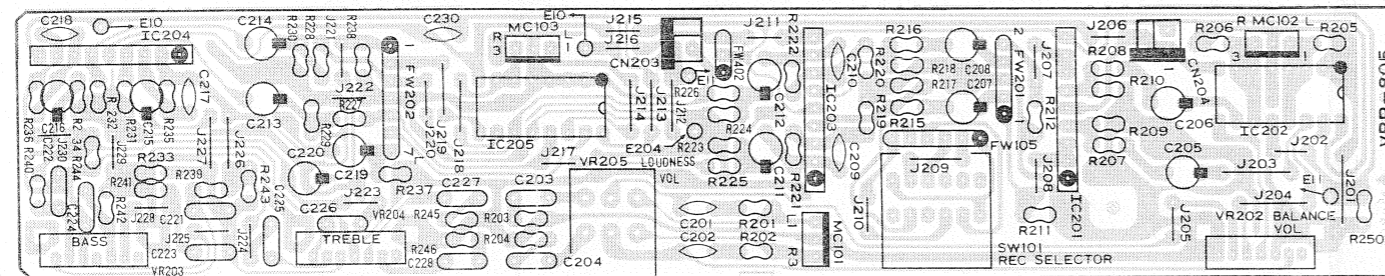
TONE DEFEAT PCB ASSY



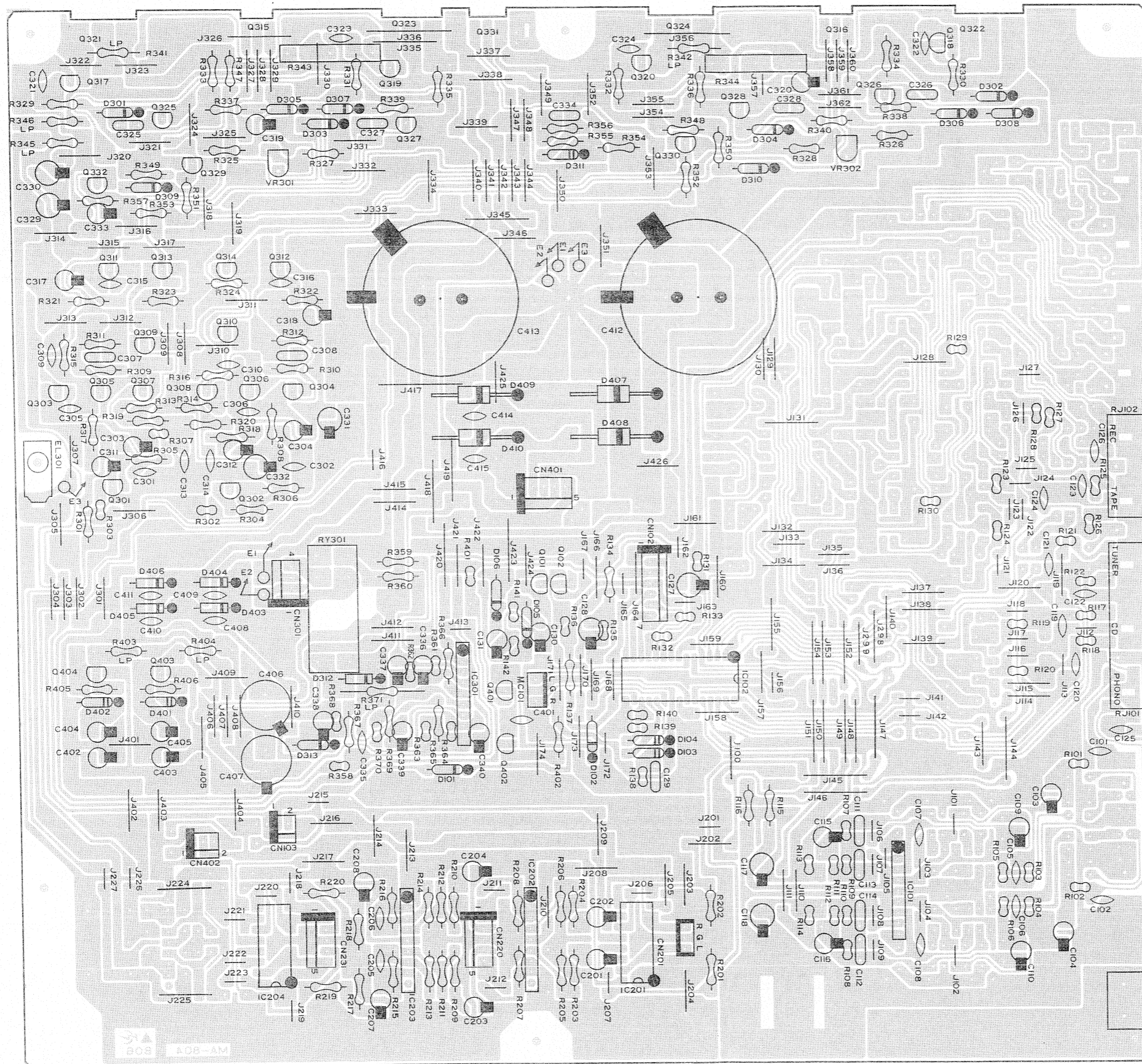
MIC PCB ASSY



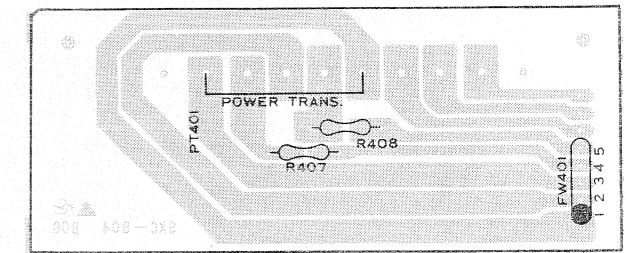
TONE CONTROL PCB ASSY



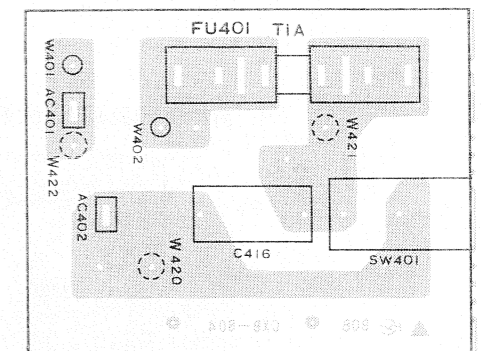
MAIN PCB ASSY



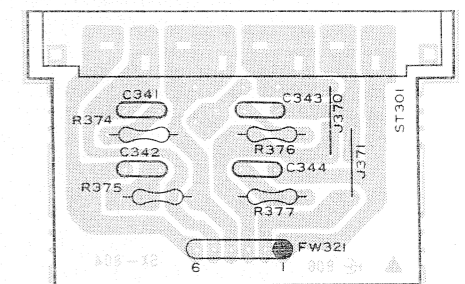
## POWER TRANS PCB ASSY



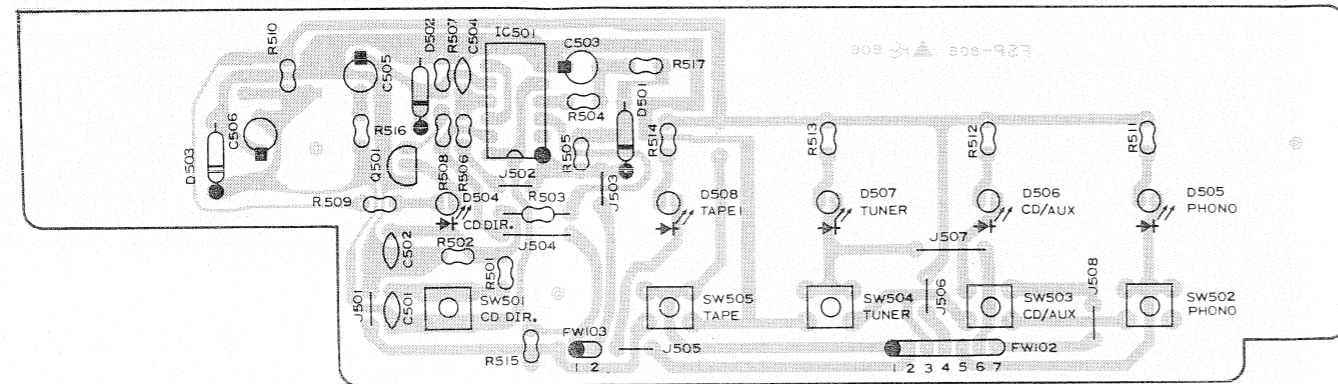
## POWER SWITCH PCB ASSY



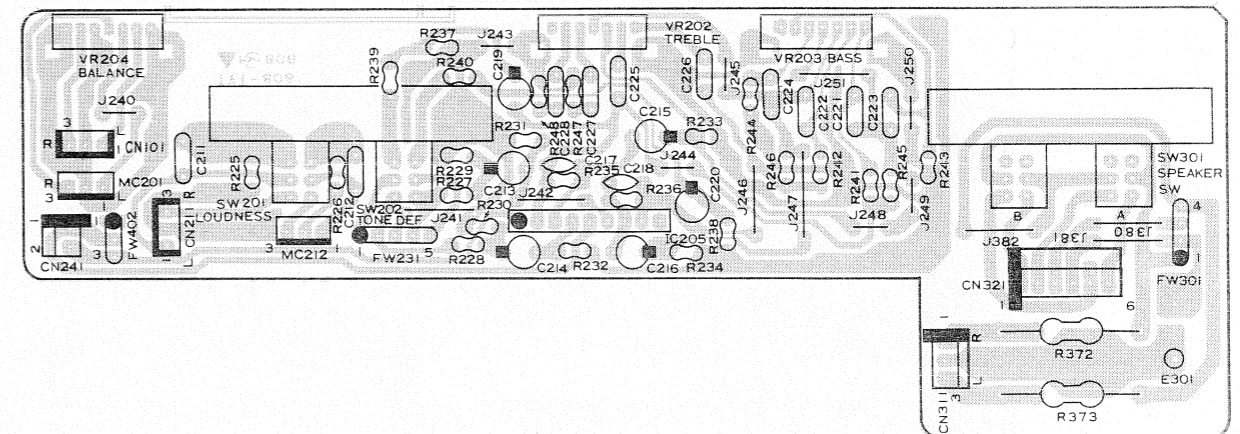
## SPEAKER TERMINAL PCB ASSY



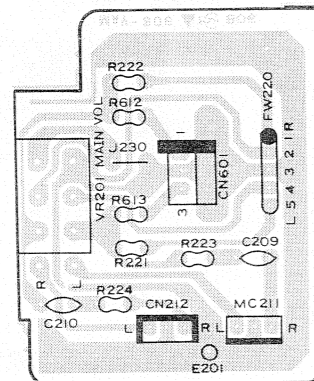
FUNCTION SELECTOR PCB ASSY



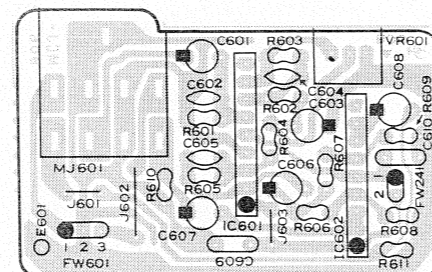
TONE CONTROL PCB ASSY



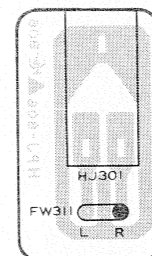
MAIN VOLUME PCB ASSY



MIC PCB ASSY



HEAD PHONES PCB ASSY



## MAIN PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02086200	MAIN PCB ASSY [C,UK,GE]
	*9A02086210	MAIN PCB ASSY [E]
	*9A02102800	MAIN PCB
IC101-105	9A01200300	IC NJM4565SB
IC107-109	9A02103000	IC TC9214P
IC110	9A01198700	IC LC7818
IC301	9A01207500	IC TA7317P
Q101,401	9A01205300	TRANSISTOR RN-1204
Q102	9A02102900	TRANSISTOR RN-2207
Q301,302	9A00308100	TRANSISTOR 2SC2878-A,B
Q303-310	9A00657000	TRANSISTOR 2SC2240-GR
Q311,312	9A01209900	TRANSISTOR 2SA1145-0,Y
Q313,314	9A01211000	TRANSISTOR 2SC2705-0,Y
Q315,316	9A01210800	TRANSISTOR 2SC1846-R
Q317,318	9A01211200	TRANSISTOR 2SC3421-0,Y
Q319,320	9A01210100	TRANSISTOR 2SA1358-0,Y
Q321,322	9A01211500	TRANSISTOR 2SD2052-S,P
Q323,324	9A01210500	TRANSISTOR 2SB1361-S,P
Q325,326	9A00592300	TRANSISTOR 2SC1815-GR
Q327,328	9A01209800	TRANSISTOR 2SA1015-Y,GR
Q329,330	9A00657000	TRANSISTOR 2SC2240-GR
Q331	9A01210800	TRANSISTOR 2SC1846-R
Q332	9A00657100	TRANSISTOR 2SA970-GR
Q402	9A01205400	TRANSISTOR RN-2204
Q403	9A01210300	TRANSISTOR 2SA965-0,Y
Q404	9A01210900	TRANSISTOR 2SC2235-0,Y
D101-103	9A01209500	DIODE IN4148
D105	9A01209500	DIODE IN4148
D106,107	9A00577100	ZENER DIODE ZD50-074
D108-110	9A01209500	DIODE IN4148
D301-310	9A01209500	DIODE IN4148
D311	9A00598100	ZENER DIODE ZD50-062
D312	9A00275400	DIODE IN4002
D313	9A01209500	DIODE IN4148
D401,402	9A01647100	ZENER DIODE ZD50-147
D403-406	9A00275400	DIODE IN4002
D407-410	9A00275300	DIODE IN5402-F
R329-332	9A02103300	R. FLAME PROOF FR25ST220J
R341,342	9A01195700	R. FLAME PROOF FR50ST221J
R343,344	9A01199000	R. CEMENT MPC725R22KX2LF
R345,346	9A02103400	R. FLAME PROOF FR50ST100J
R371	9A01205800	R. METAL OXIDE SA-2WT152J
R403,404	9A02103600	R. FLAME PROOF FR25ST220J
VR301,302	9A01206800	R. SEMI-VARIABLE
RY301	9A01193200	RELAY
RJ101	9A01208500	RCA JACK 6P
RJ102,103	9A01646900	RCA JACK 4P
CN101-103	9A01193600	CONNECTOR
CN104	9A01651600	CONNECTOR
CN105	9A01213200	CONNECTOR
CN311	9A01213000	CONNECTOR
CN401	9A01213100	CONNECTOR
CN402	9A01212900	CONNECTOR
E 1- 3	*9A02103700	SOLDER-PLA. WIRE [C,UK,GE]
1W 18	*9A02109100	SOLDER-PLATED WIRE [E]

## MAIN PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112100	MAIN PCB ASSY [C,UK,GE]
	*9A02112110	MAIN PCB ASSY [E]
	*9A02113300	MAIN PCB
IC101	9A01200300	IC NJM4565SB
IC102	9A01198700	IC LC7818
IC201,204	9A02103800	IC TC9215P
IC202,203	9A01200300	IC NJM4565SB
IC301	9A01207500	IC TA7317P
Q101,401	9A01205300	TRANSISTOR RN-1204
Q102	9A02102900	TRANSISTOR RN-2207
Q301,302	9A00308100	TRANSISTOR 2SC2878-A,B
Q303-310	9A00657000	TRANSISTOR 2SC2240-GR
Q311,312	9A01209900	TRANSISTOR 2SA1145-0,Y
Q313,314	9A01211000	TRANSISTOR 2SC2705-0,Y
Q315,316	9A01210800	TRANSISTOR 2SC1846-R
Q317,318	9A01210900	TRANSISTOR 2SC2235-0,Y
Q319,320	9A01210300	TRANSISTOR 2SA965-0,Y
Q321,322	9A01211600	TRANSISTOR 2SD2064-S,P
Q323,324	9A01210600	TRANSISTOR 2SB1371-S,P
Q325,326	9A00592300	TRANSISTOR 2SC1815-GR
Q327,328	9A01209800	TRANSISTOR 2SA1015-Y,GR
Q329,330	9A00657000	TRANSISTOR 2SC2240-GR
Q331	9A01210800	TRANSISTOR 2SC1846-R
Q332	9A00657100	TRANSISTOR 2SA970-GR
Q402	9A01643000	TRANSISTOR RN-2204
Q403	9A01210300	TRANSISTOR 2SA965-0,Y
Q404	9A01210900	TRANSISTOR 2SC2235-0,Y
D101,102	9A01209500	DIODE IN4148
D103,104	9A00577100	ZENER DIODE ZD50-074
D105,106	9A01209500	DIODE IN4148
D301-310	9A01209500	DIODE IN4148
D311	9A00598100	ZENER DIODE ZD50-062
D312	9A00275400	DIODE IN4002
D313	9A01209500	DIODE IN4148
D401,402	9A01647100	ZENER DIODE ZD50-147
D403-406	9A00275400	DIODE IN4002
D407-410	9A00275300	DIODE IN5402-F
R329-332	9A02103300	R. FLAME PROOF FR25ST220J
R341,342	9A01195700	R. FLAME PROOF FR50ST221J
R343,344	9A01199000	R. CEMENT MPC725R22KX2LF
R345,346	9A02103400	R. FLAME PROOF FR50ST100J
R371	9A02116600	R. METAL OXIDE SA-2WT561J
R403,404	9A02103600	R. FLAME PROOF FR25ST220J
VR301,302	9A01206800	R. SEMI-VARIABLE
RY301	9A01193200	RELAY
MC101	9A02116700	MICRO SOCKET ASSY
RJ101	9A01208500	RCA JACK 6P
RJ102	9A01646900	RCA JACK 4P
CN102	9A01651600	CONNECTOR
CN103	9A02104200	CONNECTOR
CN201	9A01193600	CONNECTOR
CN220,231	9A01213100	CONNECTOR
CN301	9A01213000	CONNECTOR
CN401	9A01213100	CONNECTOR
CN402	9A01212900	CONNECTOR
E 1- 3	*9A02103700	SOLDER-PLATED WIRE

[C]:CANADA [E]:EUROPE [UK]:U.K. [GE]:GENERAL EXPORT Parts marked with \*require longer delivery time.

# A-X550/A-X400

## POWER SWITCH PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02087100	POWER SWITCH PCB ASSY [C]
	*9A02087110	POWER SWITCH PCB ASSY [E]
	*9A02087120	POWER SWITCH PCB ASSY [UK]
	*9A02087130	POWER SWITCH PCB ASSY [GE]
	*9A02107400	POWER SWITCH PCB
C416	△ 9A01208300	C. METAL FILM YE103
SW401	△ 9A01206900	POWER SWITCH
W420	9A02107700	CABLE ASSY [C,GE]
W421	9A02107800	CABLE ASSY [C,GE]
W422	9A02107900	CABLE ASSY [C,GE]
W401	*9A02107500	SOLDER-PLATED WIRE [C]
W401	*9A02109500	SOLDER-PLA. WIRE [E,UK,GE]
W402	*9A02107600	SOLDER-PLATED WIRE [C]
W402	*9A02109600	SOLDER-PLA. WIRE [E,UK,GE]
FU401	△ 9A01195900	FUSE [E,UK]
FU401	△ 9A02108100	FUSE [C,GE]
	9A00279200	FUSE HOLDER [E,UK]
	9A01626600	FUSE HOLDER [C,GE]
	*9A02108000	LABEL, FUSE [C]

## POWER SWITCH PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112900	POWER SWITCH PCB ASSY [C]
	*9A02112910	POWER SWI. PCB ASSY [E,UK]
	*9A02112920	POWER SWITCH PCB ASSY [GE]
	*9A02114100	POWER SWITCH PCB
C416	△ 9A01208300	C. METAL FILM YE103
SW401	△ 9A01206900	POWER SWITCH
W420	9A02107700	CABLE ASSY [C,GE]
W421	9A02107800	CABLE ASSY [C,GE]
W422	9A02107900	CABLE ASSY [C,GE]
W401	*9A02107500	SOLDER-PLATED WIRE [C]
W401	*9A02109500	SOLDER-PLA. WIRE [E,UK,GE]
W402	*9A02107600	SOLDER-PLATED WIRE [C]
W402	*9A02109600	SOLDER-PLA. WIRE [E,UK,GE]
FU401	△ 9A02107900	FUSE [C,GE]
FU401	△ 9A01195800	FUSE [E,UK]
	9A01626600	FUSE HOLDER [C,GE]
	9A00279200	FUSE HOLDER [E,UK]
	*9A02117800	LABEL, FUSE [C,GE]

## SPEAKER TERMINAL PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02086800	SP. TE. PCB ASSY [C,UK,GE]
	*9A02086810	SP. TERMINAL PCB ASSY [E]
	*9A02106600	SPEAKER TERMINAL PCB
R374-377	9A02109200	R. FLAME PROOF [E]

## SPEAKER TERMINAL PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
ST301	9A01208600	SOCKET 8P (SP.)
FW321	*9A02106700	6-LEAD, FLAT CABLE
1W 21	*9A02109300	SOLDER-PLATED WIRE [E]

## SPEAKER TERMINAL PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112600	SP. TE. PCB ASSY [C,UK,GE]
	*9A02112610	SP. TERMINAL PCB ASSY [E]
	*9A02113800	SPEAKER TERMINAL PCB
R374-377	9A02109200	R. FLAME PROOF [E]
ST301	9A01208600	SOCKET 8P (SP.)
FW321	*9A02106700	6-LEAD, FLAT CABLE

## POWER TRANS PCB ASSY [A-X550]

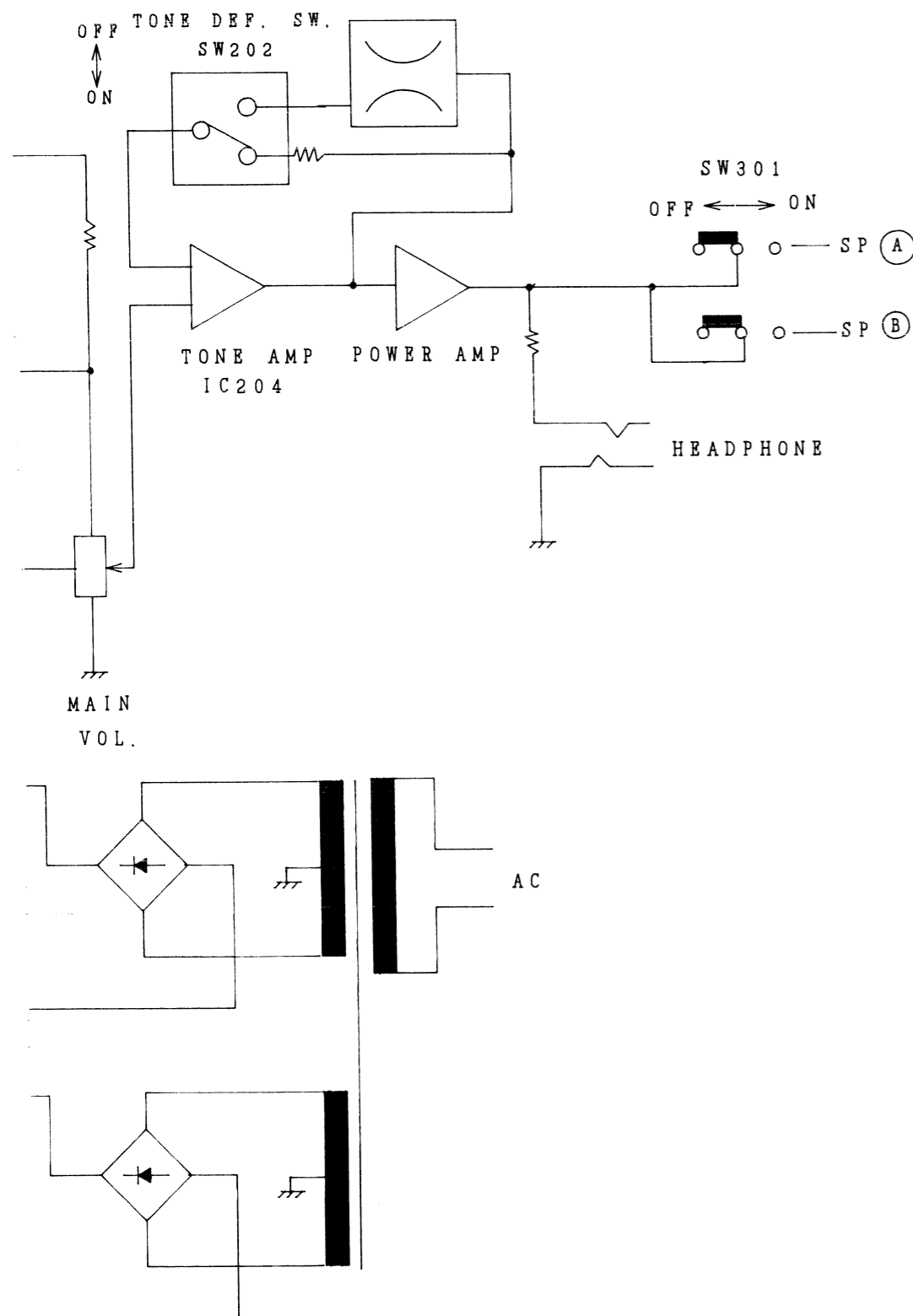
REF. NO.	PARTS NO.	DESCRIPTION
	*9A02086900	POWER TRANS PCB ASSY [C]
	*9A02086910	POWER TRANS PCB ASSY [E]
	*9A02086920	POWER TRANS PCB ASSY [UK]
	*9A02086930	POWER TRANS PCB ASSY [GE]
	*9A02106800	POWER TRANS PCB
PT401	△ 9A02107000	POWER TRANSFORMER [C]
PT401	△ 9A02109400	POWER TRANSFORMER [E]
PT401	△ 9A02110300	POWER TRANSFORMER [UK]
PT401	△ 9A02111000	POWER TRANSFORMER [GE]
R407,408	△ 9A02106900	R. FLAME PROOF FR25ST2R2J
FW401	*9A02107100	5-LEAD, FLAT CABLE

## POWER TRANS PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112700	POWER TRANS PCB ASSY [C]
	*9A02112710	POWER TRANS PCB ASSY [E]
	*9A02112720	POWER TRANS PCB ASSY [UK]
	*9A02112730	POWER TRANS PCB ASSY [GE]
	*9A02113900	POWER TRANS PCB
PT401	△ 9A02116000	POWER TRANSFORMER [C]
PT401	△ 9A02114900	POWER TRANSFORMER [E]
PT401	△ 9A02115300	POWER TRANSFORMER [UK]
PT401	△ 9A02115500	POWER TRANSFORMER [GE]
R407,408	△ 9A02106900	R. FLAME PROOF FR25ST2R2J
C499	△ 9A00275900	C. CERAMIC HI1SEY223Z [E]
FW401	*9A02107100	5-LEAD, FLAT CABLE
	*9A00292500	UL TYPE TUBE [E]

[C]:CANADA [E]:EUROPE [UK]:U.K. [GE]:GENERAL EXPORT

Parts marked with \*require longer delivery time.



## TONE CONTROL PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02086300	TONE C. PCB ASSY [C,UK,GE]
	*9A02086310	TONE CONTROL PCB ASSY [E]
	*9A02108900	TONE CONTROL PCB
IC201	9A01200300	IC NJM4565SB
IC202,205	9A02103800	IC TC9215P
IC203,204	9A01200300	IC NJM4565SB
VR202	9A01194700	ROTARY POTENTIOMETER
VR203,204	9A01194600	ROTARY POTENTIOMETER
VR205	9A01194500	ROTARY POTENTIOMETER
SW101	9A02104000	ROTARY SWITCH
MC101	9A02104700	MICRO SOCKET ASSY
MC102	9A02104800	MICRO SOCKET ASSY
MC103	9A02104900	MICRO SOCKET ASSY
CN203,204	9A02104200	CONNECTOR
FW105	*9A02104300	6-LEAD, FLAT CABLE
FW201	*9A02104400	5-LEAD, FLAT CABLE
FW202	*9A02104500	7-LEAD, FLAT CABLE
FW402	*9A02104600	3-LEAD, FLAT CABLE
IW 1	*9A00290800	SOLDER-PLATED WIRE [E]
	*9A02104100	SOLDER-PLATED WIRE
	*9A02105800	SOLDER-PLATED WIRE
	*9A00292500	UL TYPE TUBE [E]

## TONE CONTROL PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112200	TONE C. PCB ASSY [C,UK,GE]
	*9A02112210	TONE CONTROL PCB ASSY [E]
	*9A02113400	TONE CONTROL PCB
IC205	9A01200300	IC NJM4565SB
VR202,203	9A02117000	ROTARY POTENTIOMETER
VR204	9A02117100	ROTARY POTENTIOMETER
SW201	9A02117200	PUSH SWITCH
SW301	9A02117300	PUSH SWITCH
MC201	9A02104800	MICRO SOCKET ASSY
MC212	9A02116400	MICRO SOCKET ASSY
CN101,211	9A01193600	CONNECTOR
CN241	9A02104200	CONNECTOR
CN311	9A01212900	CONNECTOR
CN321	9A01213200	CONNECTOR
FW231	*9A02117400	5-LEAD, FLAT CABLE
FW301	*9A02105500	4-LEAD, FLAT CABLE
FW402	*9A01650100	3-LEAD, FLAT CABLE
	*9A02103700	SOLDER-PLATED WIRE
	*9A00292500	UL TYPE TUBE [E]

## FUNCTION SELECTOR PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02086700	FUNCTION SELECTOR PCB ASSY
	*9A02106100	FUNCTION SELECTOR PCB
IC501	9A01207600	IC TC4013BP
Q501	9A00592300	TRANSISTOR 2SC1815-GR
D501,502	9A01209500	DIODE 1N4148
D503	9A00577100	ZENER DIODE ZD50-074
D504-509	9A01206600	LED
SW501-506	9A01206700	TACT SWITCH
FW104	*9A02106400	7-LEAD, FLAT CABLE
FW203	*9A02106500	2-LEAD, FLAT CABLE

## FUNCTION SELECTOR PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
	*9A02112400	FU. SE. PCB ASSY [C,UK,GE]
	*9A02112410	FU. SELECTOR PCB ASSY [E]
	*9A02113600	FUNCTION SELECTOR PCB
IC501	9A01207600	IC TC4013BP
Q501	9A00592300	TRANSISTOR 2SC1815-GR
D501,502	9A01209500	DIODE 1N4148
D503	9A00577100	ZENER DIODE ZD50-074
D504-508	9A01206600	LED
SW501-505	9A01206700	TACT SWITCH
FW102	*9A02115700	7-LEAD, FLAT CABLE
FW103	*9A02115800	2-LEAD, FLAT CABLE
	*9A00292500	UL TYPE TUBE [E]

[C]:CANADA [E]:EUROPE [UK]:U.K. [GE]:GENERAL EXPORT

Parts marked with \*require longer delivery time.

SPEAKER SELECTOR PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
R372,373 SW301 HJ301	*9A02086500	SPEAKER SELECTOR PCB ASSY
	*9A02105200	SPEAKER SELECTOR PCB
	9A01206100	R. METAL OXIDE SA-2WT391J
	9A02105300	PUSH SWITCH
	9A01208400	HEADPHONE JACK
CN321	9A01213200	CONNECTOR
FW311	*9A02105500	4-LEAD, FLAT CABLE
	*9A02105400	SOLDER-PLATED WIRE

MIC PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
IC601,602 VR601 MJ601	*9A02086600	MIC PCB ASSY
	*9A02105600	MIC PCB
	9A01200300	IC NJM4565SB
	9A02105700	ROTARY POTENTIOMETER
	9A00304200	MIC JACK
FW204 FW601	*9A02105900	2-LEAD, FLAT CABLE
	*9A02106000	3-LEAD, FLAT CABLE
	*9A02105800	SOLDER-PLATED WIRE

MIC PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
IC601,602 VR601	*9A02112300	MIC PCB ASSY [C,UK,GE]
	*9A02112310	MIC PCB ASSY [E]
	*9A02113500	MIC PCB
	9A01200300	IC NJM4565SB
	9A02117500	ROTARY POTENTIOMETER
MJ601	9A02117700	MIC JACK
FW241 FW601	*9A02115800	2-LEAD, FLAT CABLE
	*9A02117600	3-LEAD, FLAT CABLE
	*9A02105800	SOLDER-PLATED WIRE

MAIN VOLUME PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
VR201 CN201 CN601	*9A02087000	MAIN VOLUME PCB ASSY
	*9A02107200	MAIN VOLUME PCB
	9A02107300	ROTARY POTENTIOMETER
	9A01213100	CONNECTOR
	9A01212900	CONNECTOR
CN601	*9A02105800	SOLDER-PLATED WIRE

MAIN VOLUME PCB ASSY [A-X400]

REF. NO.	PARTS NO.	DESCRIPTION
VR201 MC211	*9A02112800	MAIN V. PCB ASSY [C,UK,GE]
	*9A02112810	MAIN VOLUME PCB ASSY [E]
	*9A02114000	MAIN VOLUME PCB
	9A02116200	ROTARY POTENTIOMETER
	9A02116400	MICRO SOCKET ASSY
CN212 CN601	9A01193600	CONNECTOR
	9A01212900	CONNECTOR
FW220	*9A02116300	5-LEAD, FLAT CABLE
	*9A02105800	SOLDER-PLATED WIRE
	*9A00292500	UL TYPE TUBE [E]

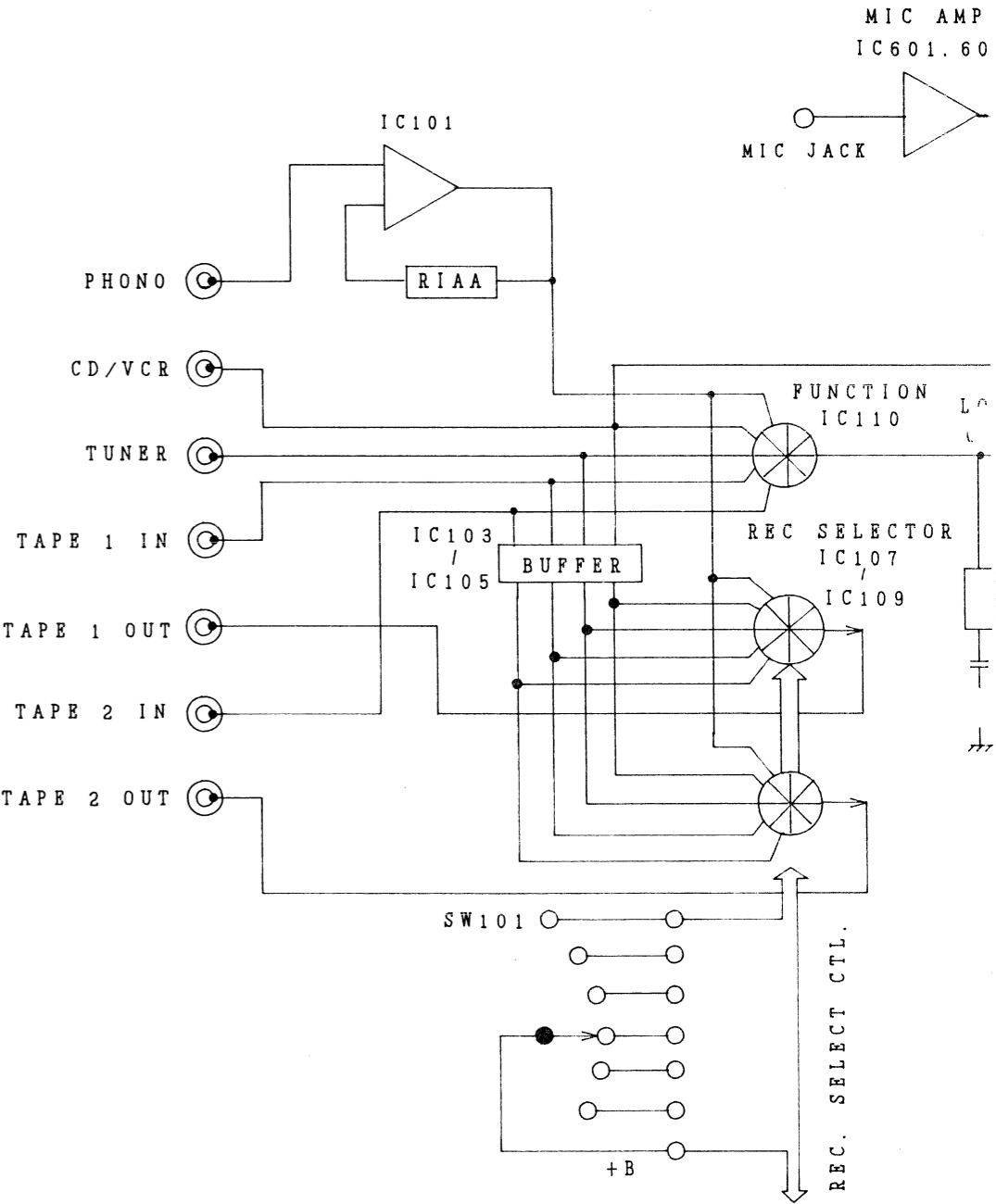
TONE DEFEAT PCB ASSY [A-X550]

REF. NO.	PARTS NO.	DESCRIPTION
SW201 CN202	*9A02086400	TONE DEFEAT PCB ASSY
	*9A02105000	TONE DEFEAT PCB
	9A02105100	PUSH SWITCH
	9A01651600	CONNECTOR

HEAD PHONES PCB ASSY [A-X400]

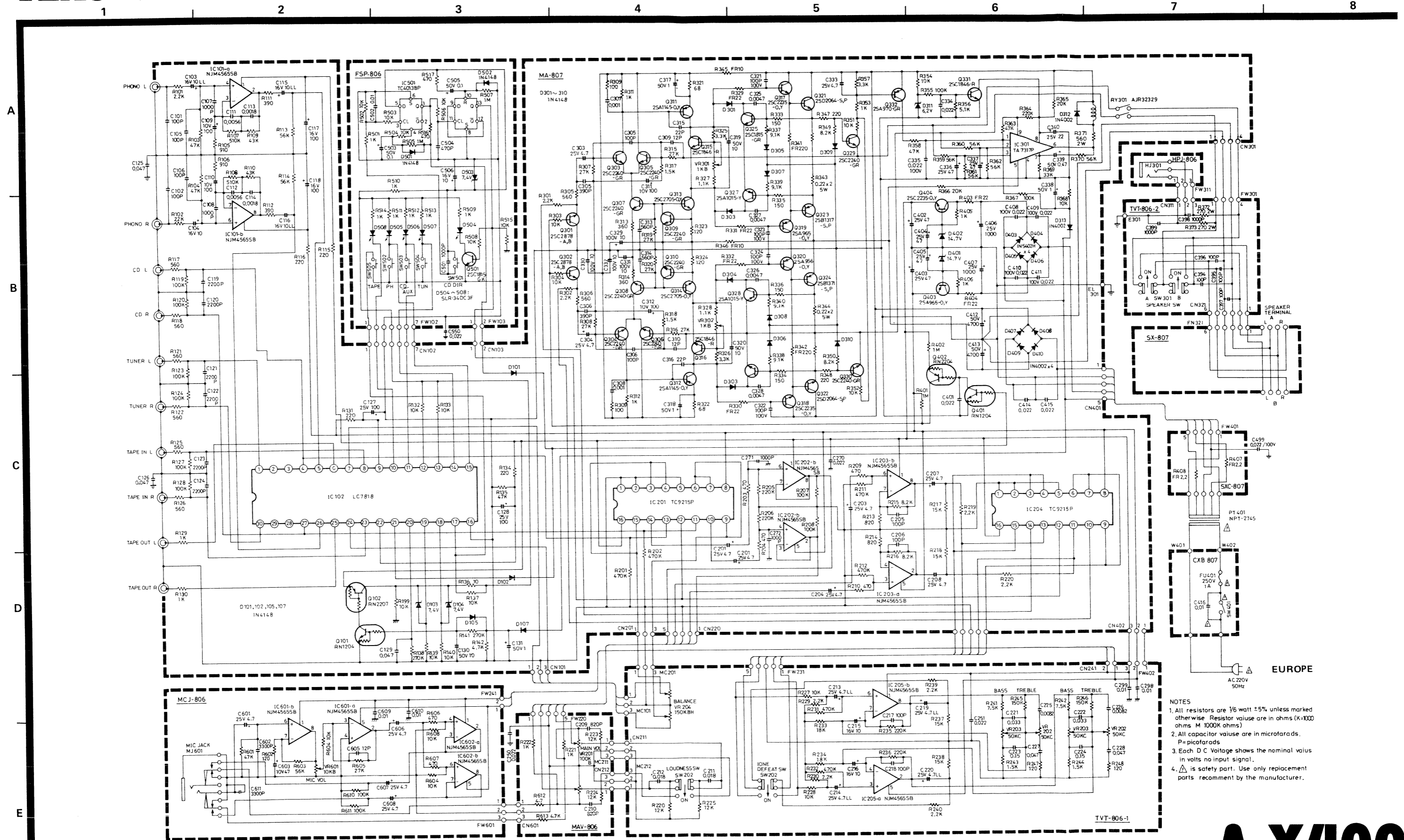
REF. NO.	PARTS NO.	DESCRIPTION
HJ301 FW311	*9A02112500	HEAD PHONE PCB ASSY
	*9A02113700	HEAD PHONE PCB
	9A01208400	HEAD PHONE JACK
	*9A02115900	3-LEAD, FLAT CABLE

A-X550



AS SAME AS LEFT

[C]:CANADA [E]:EUROPE [UK]:U.K. [GE]:GENERAL EXPORT Parts marked with \*require longer delivery time.



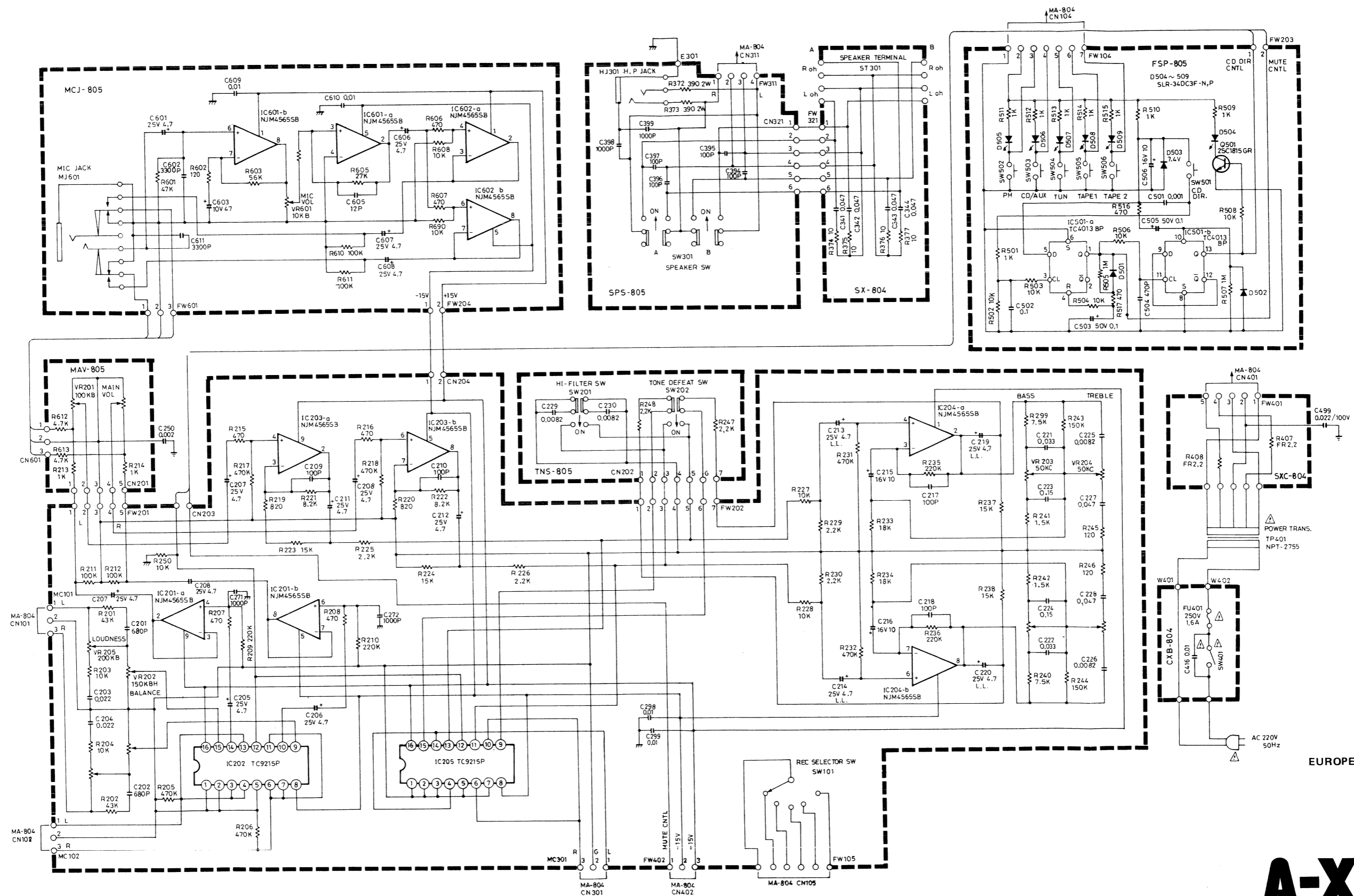
- NOTES
1. All resistors are 1/6 watt  $\pm 5\%$  unless marked otherwise. Resistor values are in ohms (K=1000 ohms, M=1000K ohms).
  2. All capacitor values are in microfarads. P=picofarads.
  3. Each D.C. Voltage shows the nominal value in volts no input signal.
  4.  $\Delta$  is safety part. Use only replacement parts recommended by the manufacturer.

# A-X400

## DC Integrated Stereo Amplifier

1st Issue; January 1990

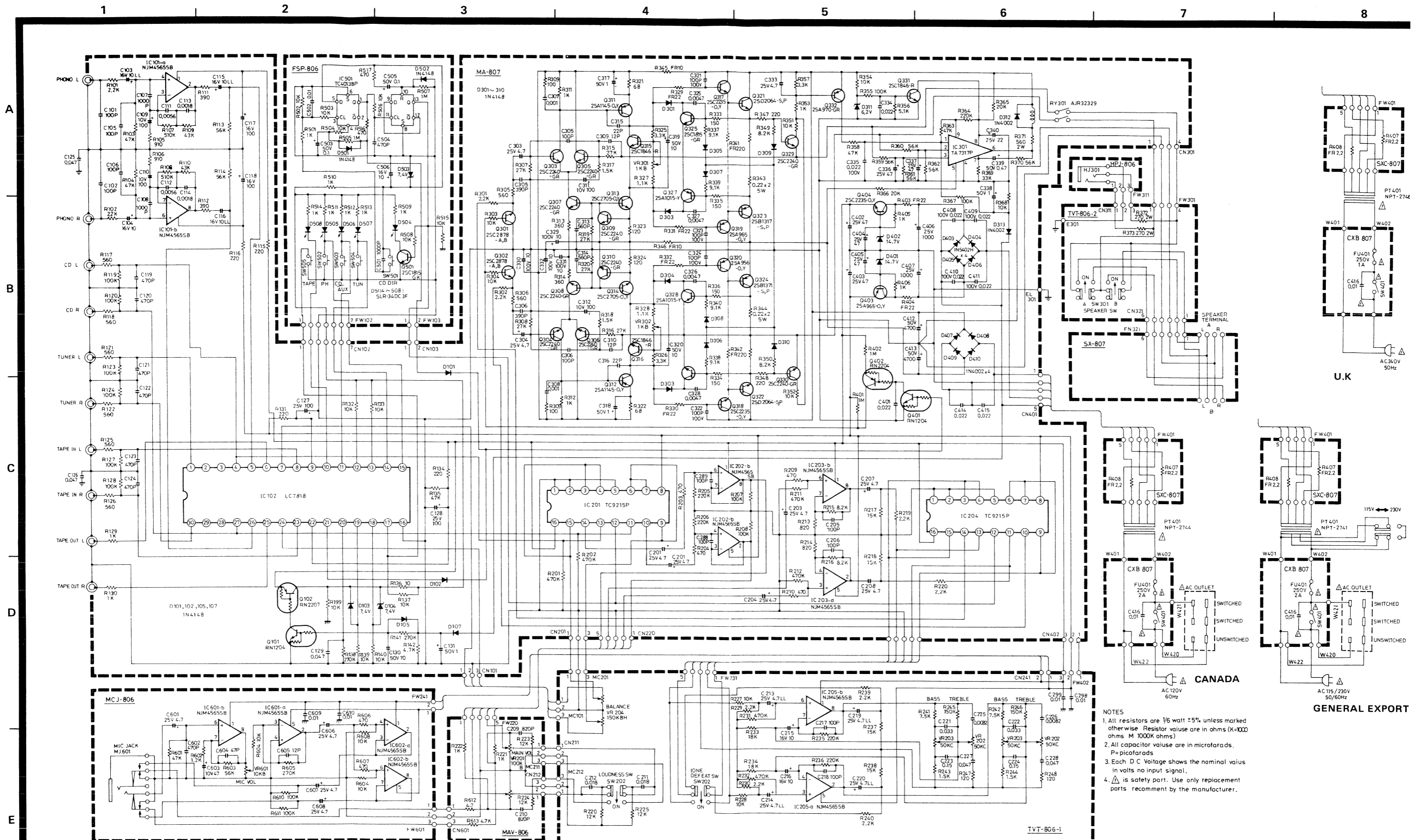
A  
B  
C  
D  
E



# A-X550

## DC Integrated Stereo Amplifier

# TEAC SCHEMATIC DIAGRAM A-X400



## INSTRUCTIONS FOR SERVICE PERSONNEL

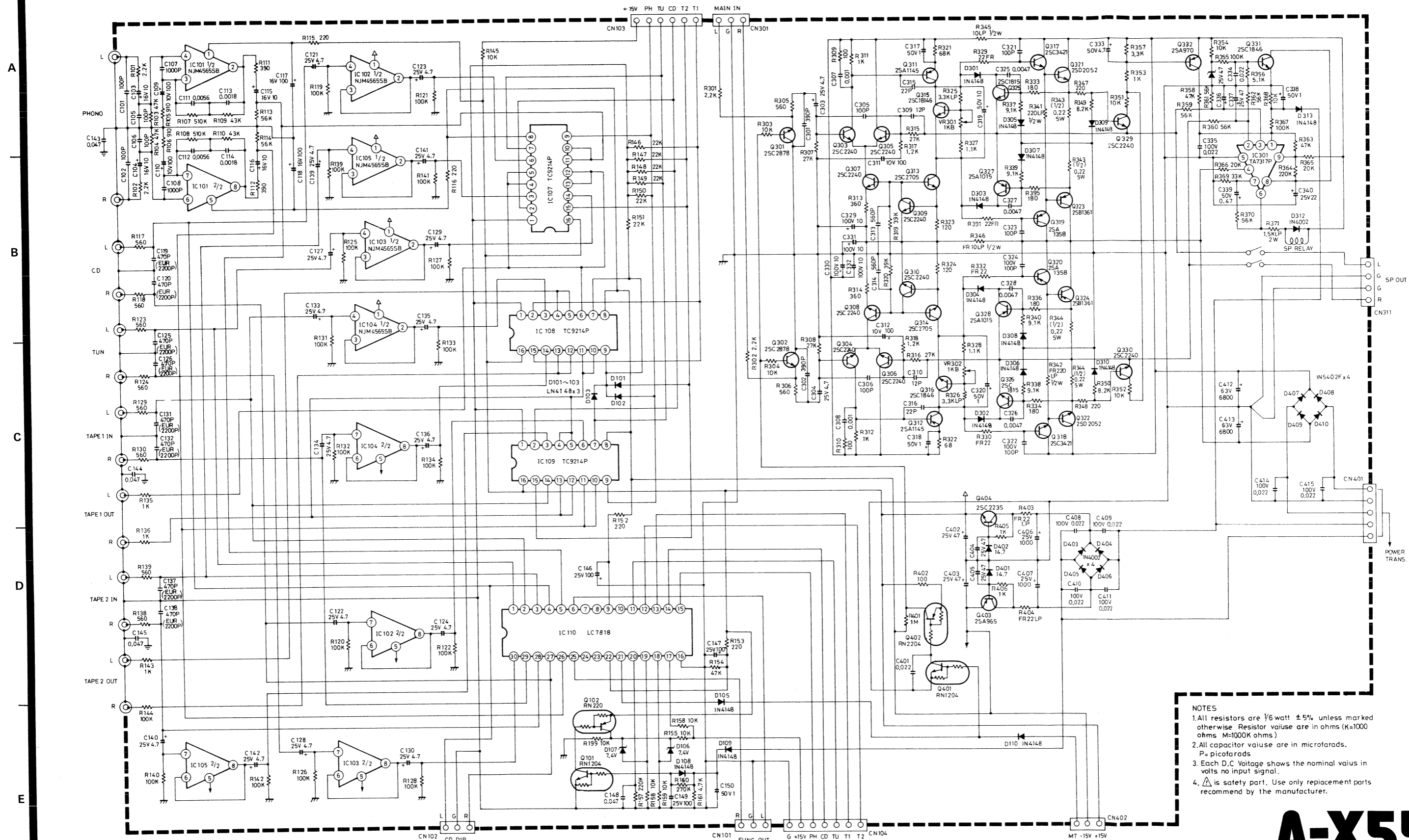
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

- NOTES
1. All resistors are 1/6 watt  $\pm 5\%$  unless marked otherwise. Resistor values are in ohms (K=1000 ohms, M=1000K ohms).
  2. All capacitor values are in microfarads. P=picofarads.
  3. Each D.C. Voltage shows the nominal value in volts no input signal.
  4.  $\Delta$  is safety part. Use only replacement parts recommended by the manufacturer.

# A-X400

## DC Integrated Stereo Amplifier

1st Issue; January 1990

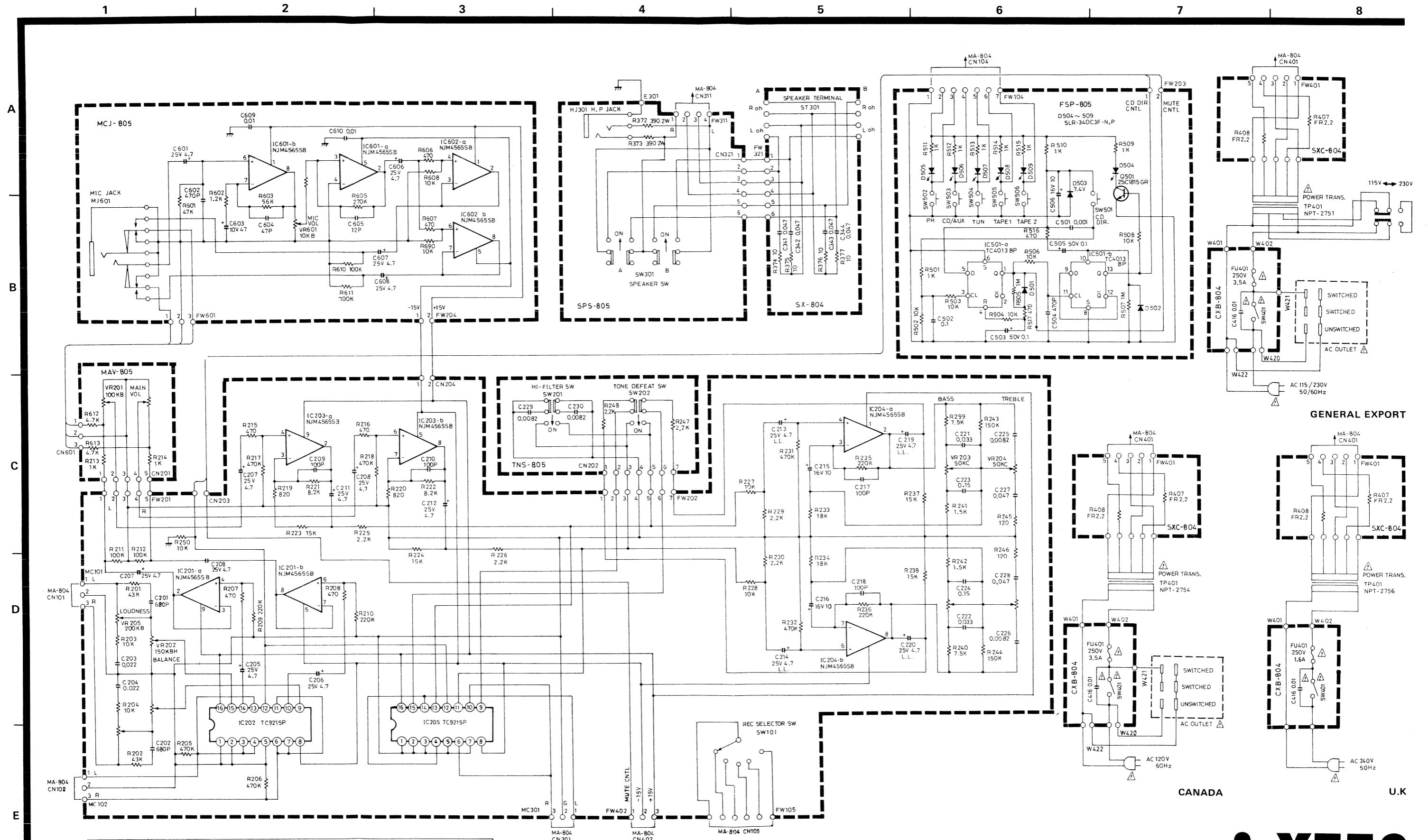


- NOTES
1. All resistors are  $\frac{1}{6}$  watt  $\pm 5\%$  unless marked otherwise. Resistor values are in ohms (K=1000 ohms, M=1000K ohms).
  2. All capacitor values are in microfarads. P=pico farads.
  3. Each D.C. Voltage shows the nominal value in volts no input signal.
  4.  $\Delta$  is safety part. Use only replacement parts recommend by the manufacturer.

# A-X550

## DC Integrated Stereo Amplifier

# TEAC SCHEMATIC DIAGRAM A-X550



## INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

# A-X550

## DC Integrated Stereo Amplifier

1st Issue; January 1990